# OIML Certificate

**OIML Member State**
The Netherlands

Number R60/2017-A-NL1-24.04 revision 0
Project number 3756657


| | |
|---|---|
| Issuing authority | NMi Certin B.V.<br>Person responsible: M.Ph.D. Schmidt |
| Applicant and Manufacturer | I Bilanciai srl<br>Via dell'Industria, 35<br>76121 Barletta (BT)<br>Italy |
| Identification of the certified type | A **double ended shear beam load cell**, with strain gauges, equipped with electronics, tested as a part of a weighing instrument.<br>Registered trade name : I Bilanciai srl<br>Type : DCB-25t |
| Characteristics | See next page |

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified Type (represented by the sample(s) identified in the OIML Test Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

**OIML R 60-1**:2017 for accuracy class C

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation above-identified.
This Certificate does not bestow any form of legal international approval.

*Important note:* Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Test Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority

**NMi Certin B.V., OIML Issuing Authority NL1**
9 April 2024

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated report(s):
- No. NMi-3083915-01 dated 13 January 2022 that includes 45 pages.

**Characteristics of the load cell:**

| | |
|---|---|
| Characterization of load cell capabilities | Digital load cell with data processing |
| Maximum capacity ($E_{max}$) | 10 t up to and including 50 t |
| Minimum dead load | 0 kg |
| Accuracy Class | C |
| Maximum number of load cell intervals (n) (1) | 3000 |
| Ratio of minimum LC Verification interval (1)<br>$Y = E_{max} / v_{min}$ | 8000 |
| Ratio of minimum dead load output return (1)<br>$Z = E_{max} / (2 * DR)$ | 3000 |
| Temperature range | -10 °C / + 40 °C |
| Fraction $p_{LC}$ | 0,8 |
| Humidity Class | CH |
| Safe overload | 150 % of $E_{max}$ |
| Recommended excitation | 12 V DC |
| Excitation maximum | 15 V DC |
| Transducer material | Alloy Steel |
| Atmospheric protection | Hermetically welded |
| Electromagnetic environment class | E2 |
| Number of counts for $E_{max}$ | 62500 cts $\geq Y * 5 / p_{LC}$ |
| Software identification | Version number: V01 |

Remarks:
1. The characteristics for $n_{max}$, Y and Z can be reduced separately.

Each load cell produced is provided with an accompanying document with information about its characteristics.

**Revision History**

| Revision | Date | Change(s) |
|---|---|---|
| 0 | 2024-04-09 | Initial issue. |